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MOLLUSCA

DREDGED AND COLLECTED

BY

T. A. VERKRUZEN,

IN 1876,

IN THE NEIGHBOURHOOD OF ST. JOHN'S,
NEWFOUNDLAND,

Including a few Species obtained from the Bay of Fundy.

ST. JOHN'S, N. F. :

J. C. WITHERS, QUEEN'S PRINTER.

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N. B.—In detailing the same, I have followed the arrangement of
GOULD in his Invertebra of Massachusetts.

1. *Solen Americanus*, Gould—Harbour of St. John's.
1 dead Specimen in
good preservation.
2. *Solecurtus gibbus*, Spengler—Harbour of St. John's.
A few young individuals.
3. *Glycimeris siligua*, Lam.—Narrows. 4 dead specimens in fair condition.
4. *Mya arenaria*, Linné—Harbour. Young, common;
old ones, rarer.
5. *Mya truncata*, L.—Harbour. Young, common;
old ones, rarer.
6. *Thracia truncata*, Brown, (*myopsis*, Beck)—
Narrows. 5 young and 1 old
dead specimens.
7. *Montacuta Dawsoni*, Jeffr.—Harbour. Locally
pretty plentiful.

8. *Saxicava rugosa*, L.—Harbour and outer Bays;
not scarce.
9. " " *var.*—Harbour and outer Bays;
not scarce.
10. *Macra solidissima*, Chem. v. *ovalis*, Gould—
Narrows. 1 young specimen.
11. *Tellina calcaria*, Chm. (*Macoma proxima*, Gray)—
Harbour. Common.
12. *Axinus* (*Cryptodon*) *Gouldii*—Harbour. Rather
scarce.
13. *Astarte compressa*, Mont.—Narrows. 2 fine live
specimens; rare.
14. " *castanea*, say—Narrows. 1 valve; and 1
live specimen from the
Bank.
15. " *crebricostata*, Forbes—Narrows. 1 young
spec. and 4 valves.
16. *Cyprina islandica*, L.—Bank. Various large
valves.
17. *Cardium islandicum*, L.—Harbour. Rather scarce.
18. " *fasciatum*, Mont.—Narrows. 3 dead spec-
imens.
19. " (*aphrodite*) *gronlandicum*, Chm.—
Harbour and Narrows, rather
scarce, also from the Bank.
20. " (*aphrodite*) *gronlandicum*, *var. album*, V.—
1 specimen from the Bank. The
valves of this handsome variety
are of a pale drab and semitrans-
parent, whilst those of the type
are variously and prettily mar-
bled.
21. *Cardita borealis*, *conr. var. St. Johnensis*, Verkr.—
Harbour and Narrows, not com-
mon. This variety is distinct
from the typical form by a broad-
er and more equilateral shape;

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it is not inflected at the lunule below the umbones, and which the latter do not project, as it is more or less the case with the typus; it is finally much smaller, the largest dead adult valves being scarcely half the size of a typical *cardita borealis* from neighboring Southern seas. I am inclined to consider it a good species and would retain the name: *Cardita St. Johnensis*, Verkr.

22. *Cardita borealis*, var.—Narrows, rare. This var. has the shape of the type but not the wrinkles on its strong radiating ribs, but is smooth and of a lighter colour.
23. *Mysilus edulis*, L.—Harbour, common.
24. *Modiola modiolus*, L.—Harbour and outer sea, not scarce.
25. *Modiolaria laevigata*, Gray—Narrows, 1 valve.
26. *Crenella decussata*, Montagu— “ scarce.
27. *Crenella glandula*, Totten— “ and Cuckold Cove, scarce.
28. “ *fabia*, Moll—Narrows, scarce.
29. *Pecten islandicus*, Moll—Narrows and great Bank, abundant.
30. “ *tenuicostatus*, Mi. & Ad.—Narrows, 1 valve, and fine specimens from the Bay of Fundy.
31. *Lima elliptica*, Jeffr.—Narrows, 1 valve.
32. “ *subauriculata*, Mont.—Narrows, 1 valve.
33. *Anomia ephippium*, L.—Narrows and outer Bays, sparingly and small.

34. *Anomia ephippium*, V. *acculeata*, gme.—Narrows,
Valves.
35. *Utriculus Gouldii*, Couth.—Harbour, scarce.
36. *Chiton ruber*, L.—Narrows and outer sea, plentiful.
37. " *marmorens*, Fabr.—Narrows and outer sea,
plentiful.
38. " " *var. pusulosus*, Verkr.—Narrows;
scarce. This variety does
not show the rectangular
ribs on the shields, which
are peculiar to the type, or
sometimes very faintly only,
but it is covered over with
minute pustules, not visible
to the naked eye.
39. " " *var. St. Johnensis*, Verkr.—This
elegant variety is of a brilliant
green color, especially when
alive, and in sculpture inclines
rather to the preceding variety
more than to the type, I obtained
but few specimens.
40. *Chiton albus* Mont.—Narrows and outer sea, pretty
abundant.
41. *Tectura testudinalis*, Mull—Small in the Narrows;
larger at Petty Harbour.
42. *Lepeta caeca*, Mull—Narrows and outer bays,
scarce.
43. *Pilidium rubellum*, Fabr. (*Tectura rubella*)—Narrows
and outer bays, rather
scarce; small.
44. *Puncturella (cemoria) noachina*, L.—Narrows, &c.,
scarce.
45. *Molleria costulata*, Moll.—Harbour, middling
scarce.

46. *Molleria costulata*, Moll.—Harbour, middling scarce.
47. *Margarita cinerea*, Couth.—Narrows and outer sea, scarce.
48. " *greenlandica*, Mull. (*undulata*, son.)—Narrows and outer sea, abundant.
49. " *helicina*, Fabr.—Harbour and Narrows, middling plentiful.
50. " *argentata*, Gould—Harbour and Narrows, not scarce.
51. *Skenea planorbis*, Fabr.—Harbour and Conception Bay, rather abundant.
52. *Rissoa striata*, Adms. var. *ardira*—Quidi Vidi Cove, dead, plentiful.
53. " *arenaria*, Mi. and Adms.—Harbour, pretty abundant.
54. " *globulus*, fide, Jeffreys—Harbour, scarce.
55. *Lacuna divaricata*, Fabr.—Harbour, in deep water plentiful.
56. " " *var. quadrifasciata*—Harbour, in deep water plentiful.
57. " " *var. pellucida*—Petty Harbour, rather scarce; almost transparent.
58. " " *var.*—A small dark *litoral* variety, Conception Bay.
59. *Litorina rudis*, Maton—Conception Bay, rather plentiful.
60. " *obtusata*, L. (? v. *palliat*a, say)—Conception Bay and Petty Harbour. Do not seem to differ from the European specimens of *obtusata*.
61. *Scalaria gronlandica*, Chm.—1 large dead well preserved specimen in

Cuckold Cove, and
one fragment, Nar-
rows.

62. *Acirsa Eschrichti*, Holboll—1 young spe., Narrows.
63. *Turretella acicula*, Stimps—Harbour, several dead specimens.
64. *Menesiho striatula*, Couth—Narrows, 1 dead specimen.
65. *Velutina lævigata*, L.—Narrows, scarce.
66. *Natica affinis*, Gml, (clausa, Sow)—Narrows, scarce.
67. " (*amauropsis*) *islandica*, Gmel.—Outer bay, 1 dead specimen.
68. " *immaculata*, Totten—Narrows, 1 dead specimen.
69. *Bela turricula*, Mont.—Harbour, 2 small specimens, rather stunted.
70. " " *var. rosea*, say—Harbour, not scarce, fair size.
71. " *Trevelyana Turl.* (*v. rosea*)—Harbour, 1 good specimen, tinted.
72. " " *var. Smithii*, Jeffr.—Harbour, not scarce, peculiarly interesting.
73. " *violacea*, Mi. and Ad.—Harbour, plentiful.
74. " *harpularia*, Couth—Harbour, 1 dead specimen.
75. " *pyramidalis*, Moll—Harbour, 1 fine live specimen.
76. " *Pingeli*, Moll—Harbour, 1 young specimen.
77. *Purpura lapillus*, L.—Plain and striped. Harbour and C., plentiful.
78. *Trichotropis borealis*, Sow. *var. St. Johnensis*, Verkr.—Harbour and Narrows. This fine variety is distinguished from the European type by a larger

size and stronger texture, *strong*
bright yellow brown Epidermis,
a more projecting outer lip, and
is frequently coloured within of
a lively brownish yellow. It
may be called the handsomest
Shell of St. John's Harbour.

79. *Buccinum undatum*, L.—Harbour and outer Bays,
not abundant, a close
approach to the Euro-
pean form of the North
Sea; also the handsome
American typus with
golden throat from the
Bay of Fundy.
80. " " var. A.—Bank, (probably
Bucc. Donovanii,
Gray), 2 speci-
mens.
81. " " var. B.—Bank. } These three
are similar
to each oth-
er, yet not
alike; they
differ much
from the
European
and Ameri-
can type;
having but
one speci-
men of
each, I
withhold an
opinion un-
til more are
obtained.
82. " " var. C.— " }
83. " " var. D.— " }
84. " ? nov. spe.—Bank, (? perhaps *B. serica-*
tum, Hancock.)

85. *Fusus* (*Neptunea*) ? *spe.*—Bank.

86. " *decemcostatus*—Bank, 1 live but unfortunately broken specimen. Verte. A close approach to the European form of the North Sea.

87. *Fusus lyratus*, Martyn.

88. *Natica heros*, Say.

89. " *triseriata*, Say.

90. *Yoldia myalis*, Couth.

91. *Macra solidissima*, Chem. v.

92. *Venus* ? *notata*, Say.

} These last six species only from the Bay of Fundy, Nova Scotia.

Besides the above Mollusca, I obtained an interesting variety of Crustacea, Tunicata, Ectinodermata, Actinozoa, Boltenia, Annelida, &c., in a great measure from the Bank, and some, especially the Crustacea, also from St. John's Harbour, the Narrows and outer Sea. These are still under investigation, not being my speciality.

Frankfurt, ^a/M., May, 1877.

T. A. VERKRUZEN.



46. *Molleria costulata*, Moll. var. *glabra*, Verkr.—

Harbour, scarce. Instead of the strong ribs of growth of the type, this var. is quite smooth; intermediates have faint ribs.